

# INTERNATIONAL SEARCH REPORT

GB2004/003527

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12Q1/68 A23K1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12Q A23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, EMBASE, BIOSIS, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 5 622 842 A (PATEL MAYUR D ET AL) 22 April 1997 (1997-04-22)</p> <p>claim 1 column 2, paragraph 7 - column 3, paragraph 1 column 3, paragraph 7 - column 4, paragraph 1 column 7, paragraph 1 - paragraph 2 column 8 examples 4-7,9,10</p> <p style="text-align: center;">----- -/-</p>	<p>12-14, 20,21, 33,34</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

29 December 2004

Date of mailing of the international search report

11/01/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EMBL 'Online!  10 December 1994 (1994-12-10), "Canis familiaris IgA heavy chain constant region gene, partial cds."  XP002312049  retrieved from EBI accession no.  EM_PRO:CFIHCC  Database accession no. CFIHCC  the whole document  &amp; PATEL M ET AL: "SEQUENCE OF THE DOG IMMUNOGLOBULIN ALPHA AND EPSILON CONSTANT REGION GENES" IMMUNOGENETICS, SPRINGER VERLAG, BERLIN, DE,  vol. 41, no. 5,  22 March 1995 (1995-03-22), pages 282-286,  XP002037155  ISSN: 0093-7711  the whole document</p>	33,34
X	<p>WO 97/40462 A (SPECTRA BIOMEDICAL INC)  30 October 1997 (1997-10-30)  claims 1,31  figure 1  page 11 - page 12  page 17</p>	29
P,X	<p>PETERS IAIN R ET AL: "Identification of four allelic variants of the dog IGHA gene."  IMMUNOGENETICS. JUL 2004,  vol. 56, no. 4, July 2004 (2004-07), pages 254-260, XP002312167  ISSN: 0093-7711  the whole document</p>	1-21,24, 25,29-34
A	<p>NAVARRO P ET AL: "Genetic differences in the frequency of the hinge variants of porcine IgA is breed dependent."  VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY. 15 MAR 2000,  vol. 73, no. 3-4,  15 March 2000 (2000-03-15), pages 287-295,  XP002312166  ISSN: 0165-2427  abstract  page 293 - page 294</p>	
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ROSE P T ET AL: "IGA ANTIBODIES TO STREPTOCOCCUS MUTANS IN CARIES-RESISTANT AND SUSCEPTIBLE CHILDREN" PEDIATRIC DENTISTRY, XX, US, vol. 16, no. 4, July 1994 (1994-07), pages 272-275, XP009021440 ISSN: 0164-1263 page 274 table 5</p>	
A	<p>PETERS I R ET AL: "Quantitative real-time RT-PCR measurement of mRNA encoding alpha-chain, pIgR and J-chain from canine duodenal mucosa" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V.,AMSTERDAM, NL, vol. 275, no. 1-2, 1 April 2003 (2003-04-01), pages 213-222, XP004416769 ISSN: 0022-1759 the whole document</p>	

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 22, 23, 26-28  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

Continuation of Box II.1

Claims Nos.: 22,23,26-28

Claim 22: Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Claim 23: Rule 39.1(v) PCT - Presentation of information

Claims 26-28: Rule 39.1(vi) PCT - Program for computers

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/003527

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5622842	A	22-04-1997	WO	9614867 A1	23-05-1996
WO 9740462	A	30-10-1997	AU	2734197 A	12-11-1997
			EP	0897567 A2	24-02-1999
			JP	2000508912 T	18-07-2000
			WO	9740462 A2	30-10-1997